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L15: Entry 56 of 248

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TITLE: AMORPHOUS THIN BODY AND ITS PRODUCTION

PUBN-DATE: October 31, 1987

INVENTOR-INFORMATION:

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APPL-NO: JP61091937

APPL-DATE: April 21, 1986

INT-CL (IPC): C22C 38/00; C22C 33/00

ABSTRACT:

PURPOSE: To manufacture an amorphous sheet metal having superior adhesive adaptability at the time of lamination, by injecting a molten magnetic material toward the peripheral surface of a rotating roll formed into proper surface roughness and by allowing the magnetic material to solidify and flow down in the direction of the rotation of the roll.

CONSTITUTION: The surface roughness at the peripheral surface of the roll 1 for cooling is regulated to 0.2~10μm. With rotating the above roll 1, the molten magnetic material prepared by melting raw materials 2 in a silica tube 3 around which a heating wire 4 is wound is injected by means of a nozzle toward the peripheral surface of the above roll 1. In this way, the above magnetic material is allowed to flow down in solidified condition in the direction of the rotation of the above roll 1 toward the peripheral surface of the roll 1 so as to be formed into an amorphous sheet metal 6. The roughness of the above peripheral surface is transferred to the above amorphous sheet metal 6 to provide the sheet metal 6 with a roughness of 0.2~10μm, so that effective adhesion can be obtained at the time of lamination.

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1, 2, 6-11